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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CHRISTO LUBE, NT75, MCG 111, NT73, NT71

MSDS DATE: 2/18/03

SECTION 2 HAZARDOUS INGREDIENTS

PERFLUORINATED POLYETHER (PFPE) CAS NO. 69991-61-3
POLYTETRAFLUOROETHYLENE (PTFE) CAS NO. 9002-84-0
NO HAZARDOUS INGREDIENTS CONTAINED. NON-CARCINOGENIC
THRESHOLD LIMIT VALUE; LD50.40 G/KG OSHATHRESHOLD LIMIT VALUE; LD50>40 G/KG
ACGIH THRESHOLD LIMIT VALUE; LD50>40 G/KG

SECTION 3 PHYSICAL DATA

APPEARANCE & ODOR: NO ODOR, WHITE COLOR

BOILING POINT	N/A	SPECIFIC GRAVITY WATER =1	1.990
VAPOR PRESSURE (MMHG 20C)	N.D.	ODOR THRESHOLD;	N.D.
VAPOR DENSITY (AIR=1)	N/A	MELTING POINT;	ABOVE 250C
SOLUBILITY IN WATER	INSOLUBLE	EVAP. RATE (BUAC=1)	SLOWER THAN BUTYL ACETATE
APPEARANCE; GREASE	FREEZE POINT;	N.D.	VISCOSITY; N.D.

N.D.= NOT DETERMINED. N/A= NOT AVAILABLE

SECTION 4 FIRE & EXPLOSION HAZARD

FLASH POINT= N/A METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

SPECIAL FIREFIGHTING PROCEDURES: SELF CONTAINED BREATHING APPARATUS IS REQUIRED FOR FIRES IN ENCLOSED AREAS. WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM BUT IS HELPFUL IN KEEPING ADJACENT CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARDS; DECOMPOSITION AT TEMPERATURES ABOVE 290C MAY CAUSE THE EVOLUTION OF TOXIC GASEOUS FLUORINE COMPOUNDS

SECTION 5 REACTIVITY DATA

STABILITY; STABLE CONDITIONS TO AVOID; AVOID HEATING ABOVE 290C

INCOMPATIBILITY (MATERIALS TO AVOID); STRON OR NOT AQUEOUS ALKALI AND LEWIS ACIDS ABOVE 100C

HAZARDOUS DECOMPOSITION PRODUCTS; TOXIC HF AND COF2 FROM THERMAL DECOMPOSITION IN AIR.

HAZARDOUS POLYMERIZATION; WILL NOT OCCUR

AVOID HEATING ABOVE 290C

SECTION 6 HEALTH HAZARD DATA

ROUTE OF ENTRY; N/A

INHALATION; SLIGHTLY TOXIC BY INHALATION (4HR LC50 1000-5000PPM; 8-40 MG/1)

SKIN; VERY LOW TOXICITY BY CONTACT.

INGESTION; VERY LOW TOXICITY BY INGESTION

CARCINOGENICITY; NONE NPT NO IARC MONOGRAPHS; NO OSHA REGULATED; NO

SIGNS AND SYMPTOMS OF EXPOSURE; MILD IRRITANT TO THE SKIN UPON PROLONGED EXPOSURE FOR SOME INDIVIDUALS. DECOMPOSTION PRODUCTS FORMED AT HIGH TEMPERATURES MAY CAUSE "POLYMER FEVER"

EVERGENCY AND FIRST AID PRODEDURES; SEE ABOVE

SECTION 7 PRECAUTION FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED; STOP SPILL AT SOURCE, PREVENT SPREADING. AVOID SKIN CONTACT WITH LIQUID. SOAK UP ON ABSORBENT MATERIALAND PLACE INTO CONTAINER FOR DISPOSAL. CLEAN WALKING SURFACES THOROUGHLY TO REDUCE SLIPPING HAZARD.

WASTE DISPOSAL FOLLOW ALL FEDERAL, STATE AND LOCAL WASTE REGULATIONS, SOLID INGREDIENTS NOT CONSIDERED HAZARDOUS.

HANDLING & STORAGE; STORE IN COOL, WELL VENTILATED AREAS AWAY FROM ANY IGNITION SOURCES AND STRONG OXIDIZ-ING AGENTS. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. DO NOT TRANSFER TO PLASTIC CONTAINERS.

OTHER PRECAUTIONS; TOXIC VAPORS MAY BE EVOLVED ABOVE 290C. PROVIDE ADEQUATE VENTILATION IF PRODUCT IS USED ABOVE THIS TEMPERATURE.

SECTION 8 CONTROL MEASURES

RESPIRATORY PROTECTION

WEAR A NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE, OR A FULLFACE SUPPLIED AIR RESPIRATOR.

VENTILATION

MECHANICAL VENTILATION AND / OR LOCAL EXHAUST, SUFFICIENT IN PATTERN AND VOLUME, TO MEET TLV REQUIREMENTS

PROTECTIVE GLOVES

USE POLYETHYLENE OR NITRILE GLOVES IF FREQUENT SKIN CONTACT IS LIKELY.

EYE PROTECTION

SAFETY GLASSES WITH SPLASH GUARDS OR SIDE SHIELDING RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

WEAR IMPERVIOUS CLOTHING IF BODILY EXPOSURE IS ANTICIPATED.

WORK / HYGIENIC PRACTICES

DO NOT WEAR CONTACT LENSES. WASH CONTAMINATED CLOTHING BEFORE REUSE. WEAR

PROTECTIVE SAFETY EQUIPMENT AS NECESSARY TO MINIMIZE CONTACT. WASH HANDS WITH SOAP AND WATER.

VIII TOXICOLOGICAL PROPERTIES

NO PRODUCT OR COMPONENT TOXICOLOGICAL INFORMATION IS AVAILABLE

VIII DISPOSAL CONSIDERATIONS

DISPOSAL METHOD; DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

MSDS PREPARED BY: QUALITY CONTROL DEPT.

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